

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1-30. (Canceled).

31. (Currently amended) A method, comprising:

obtaining, at a first location, an original medical image representing medical information to be evaluated by an evaluating person;

compressing the original medical image to form a compressed medical image, at the first location;

sending the compressed medical image from the first location to a second location, at which second location the evaluating person is located;

allowing selection of a region of the compressed medical image at the second location, which region is less than the entire compressed medical image, and sending an indication of that region to the first location; and

carrying out a medical analysis of only the region of the medical image at said first location, said medical analysis being based on the contents of the original medical image that are within the region selected by the evaluating person.

32. (Previously presented) The method of claim 31, wherein said sending the compressed medical image includes transmitting the compressed medical image over a global packet-switched network.

33. (Currently amended) The method of claim 31 wherein said second location includes a remote view station and further including transmitting said indication from the remote view station to an image server, wherein the region information defines the selected region of the displayed medical image.

34. (Previously presented) The method of claim 33, wherein the indicator is transmitted as a series of pixel coordinates.

35. (Previously presented) The method of claim 31, wherein said allowing selection selecting the region of the compressed medical image includes receiving input from a pointing device controlled by a user to outline the region of the compressed medical image.

36. (Currently amended) A system comprising:

an image server, at a first location, obtaining an original medical image representing medical information to be evaluated by an evaluating person;

said image server including an image compression part which compresses the image to form a compressed medical image, and including a network communicating part which communicates the compressed medical image over a network;

a remote view station at a second location, including a network communicating part receiving said compressed medical image, a viewing part enabling said image to be viewed, and enabling a region of said image to be selected, where information indicative of said region is sent back to the image server;

wherein the image server also includes a medical analysis part at said first location, which enables carrying out a medical analysis of only the region of the medical image, based on the contents of the original medical image, that are within the region that was selected.

37. (Previously presented) The system of claim 36, wherein the remote view station transmits region information separate from the compressed medical image from the remote view station to the imaged server, wherein the region information includes a

plurality of pixel coordinates outlining the selected region  
the compressed image.

38. (Previously presented) The system of claim 36, wherein  
the image server applies the image analysis operations to  
generate a score and communicate the score to the remote view  
station for display.

39. (Previously presented) The system of claim 36, wherein  
the image server includes a database associating a diagnosis  
received from the remote view station with the source medical  
image.

40. (Previously presented) The system of claim 36, wherein  
the remote view station includes a pointing device controllable  
by a user to outline the region of the compressed medical image.

41. (New) The system as in claim 38, wherein said medical  
analysis part is a computer which automatically processes the  
original medical image to calculate said score.

42. (New) The system as in claim 31, wherein said carrying  
out a medical analysis comprises using the computer to

automatically process the original medical image at its original location.

43. (New) The system as in claim 42, wherein said carrying out a medical analysis comprises automatically forming a score indicative of the image, and sending said score to the second location.